

A CHINESE TYPEWRITER AND TELETYPEWRITER SYSTEM*

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ABSTRACT

This abstract briefly describes an electronically operated Chinese typewriter and teletypewriter system.

In this system each Chinese character is digitized by means of a 20X24 matrix (480 grid points), and simplified as a record of 120 hexadecimal digits, and selectively stored in a master file within a direct access storage apparatus. Up to 9,600 characters are available in a system. A keyboard is provided for quick access to the master file. On top of the keyboard is a character reference sheet which is organized according to the order of Chinese phonetic alphabets. By appropriate keying of desired character, mechanism within the control unit will access the master file. A graphic display apparatus is provided for the display of accessed character. The display position of the character can be controlled by cursor. A group of function switches is provided on the keyboard for cursor movement, hard copy, insertion and deletion of characters as well as for communication with other systems via dial-up message switching computer and thereby functions as a teletypewriter.

A matrix printer is provided for obtaining hard copy of the characters which are 'typed' from the keyboard and are displayed on the display apparatus. Either horizontal or vertical style can be printed by selecting the appropriate function switch on the keyboard.

The system can be used as a stand-alone system or as an intelligent terminal for the input and output of Chinese characters for a computer. When used as a stand-alone system, up to 63 additional keyboards can be attached to a system. Each additional keyboard has its own associated matrix printing mechanism.

*Patent pending